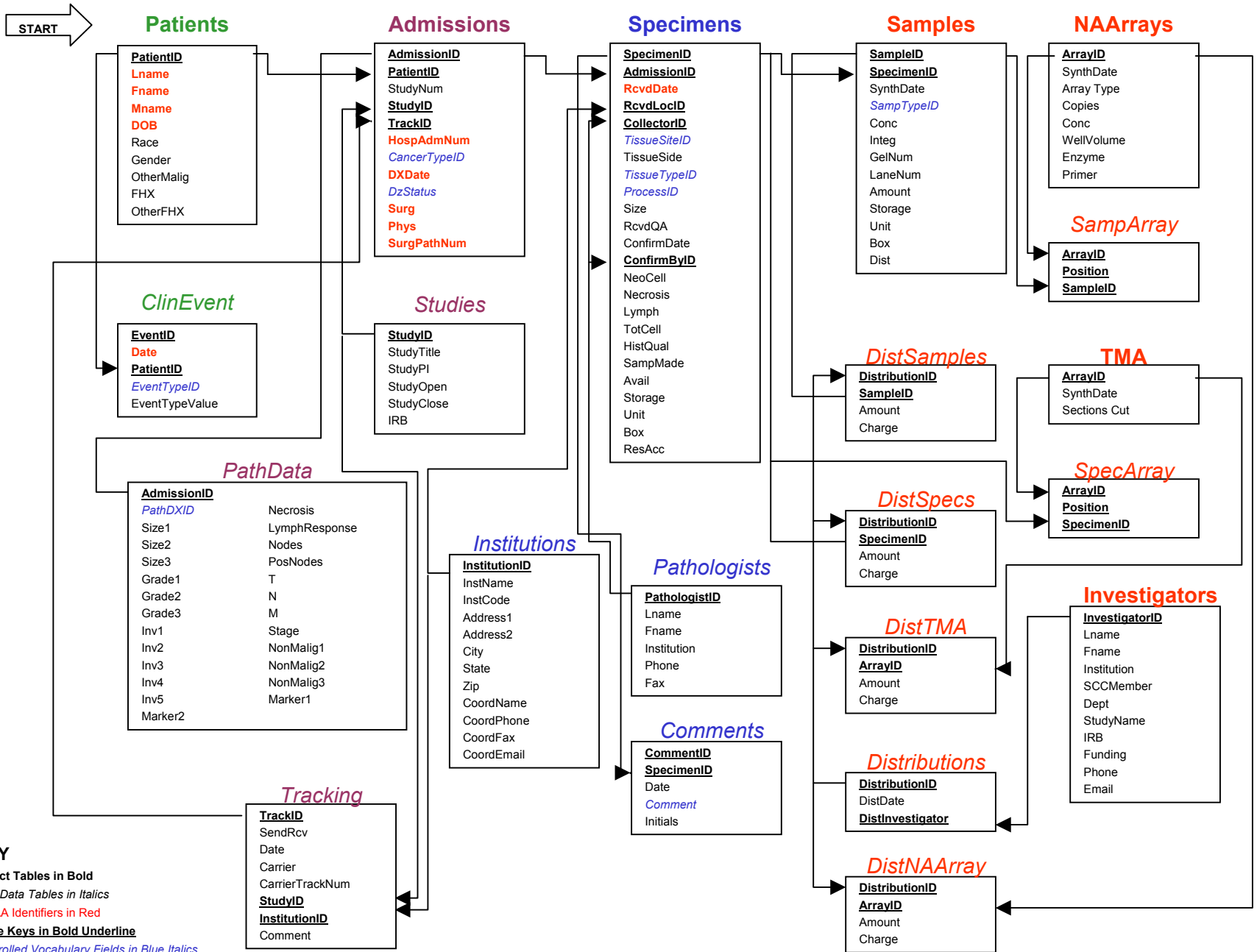


caTIS5.0 Model



I. Possible Solutions / Models

- A. All sites use their existing systems; mapping tools developed to connect each system to a grid.
 - i. Inefficient
 - ii. Each site has varying degrees of system development
 - iii. However, may only be a limited number of existing systems?
- B. All sites use existing system; mapping tools developed to transfer data to a common system (central repository- "GenBank Model").
 - i. Inefficient / Synchronization issues
 - ii. Still need multiple mapping tools
 - iii. However, each site could maintain 'control' of their own data locally
- C. All sites adopt a common system
 - i. Many sites can't / won't change their existing system
 - ii. Each site may have different, specific needs of a system
- D. >> Two tiered approach- Large legacy systems develop mapping tools / interfaces to connect to the grid; small or non-existent systems replaced by caBIG foundation software (caTISSUE Lite)
 - i. Sites can keep their existing systems at the cost of developing appropriate interfaces
 - ii. Incentive to adopt new caBIG foundation software is that all subsequent modules will be 'plug and play'

II. 'High Level' Project Plan

- A. Draft project charter (Developers)
- B. Draft detailed project plan (Developers)
- C. Charter / plan approved (All WS members)
- D. Gather data on existing systems (All WS members)
 - i. Each adopter responsible for intelligence gathering of systems
 - ii. Gather
 - 1. Use Cases
 - 2. Object Models
 - 3. CDE / Vocabularies
 - 4. User Interfaces
 - 5. Usable Code
 - iii. Formal report presented at 11/04 meeting
 - iv. Systems
 - 1. Academic
 - a. UPMC
 - b. MSKCC
 - c. Vanderbilt
 - d. CALGB / SWOG / NSABP / ECOG
 - e. EDRN

- f. CHTN
 - g. Others
 - 2. Commercial
 - a. Ardais
 - b. LabTrack
 - c. Freezer Works
 - v. This step does not need to be complete before proceeding
- E. Draft white paper on IRB / MTA Issues (All WS members)
 - i. Work with DSIC WS
 - 1. Institutional IRBs
 - 2. Central IRB / DHHS / NCI / PRIMR
 - 3. Institution tech transfer offices
 - 4. Industry representatives
 - ii. IRB
 - 1. Overview of key IRB concerns and how caTISSUE system will address these
 - a. What are the concerns
 - b. Use cases for where confidentiality could be problematic
 - c. De-identification / encryption schemes
 - d. Multi-level access
 - 2. Template of protocol / consent forms that would be considered 'caBIG-compliant.'
 - iii. MTA
 - 1. Overview of key MTA/DSIC concerns and how caTISSUE system will address these
 - a. What are the concerns
 - b. Use cases for where DSIC could be problematic
 - c. Multi-level access
 - iv. This step does not need to be complete before proceeding
- F. CaTISSUE Lite Development (WU / Indiana / Jefferson)
 - i. Draft Use Cases
 - 1. Incorporate data from intelligence gathering
 - ii. Draft System Architecture
 - 1. Incorporate data from intelligence gathering
 - 2. Coordinate with Arch WS
 - iii. Draft Object Model / Data Model
 - 1. Incorporate data from intelligence gathering
 - iv. Identify CDEs and Vocabularies (with UPMC)
 - 1. Incorporate data from intelligence gathering
 - 2. Coordinate with CDE WS
 - 3. Gather basic CDEs for caTISSUE Lite; other CDE classes can be developed on a module by module basis as needed
 - v. Design Use Cases
 - vi. Approval of Final Design Document (all WS members)
 - vii. Implement Object Model / Data Model
 - viii. Implement Use Cases

- ix. Draft Test Cases
- x. Perform Testing
- xi. Deployment to Server (WU / Adopters)
- xii. Integration Testing
- xiii. End User testing
- xiv. Deploy to Production
- xv. Draft User / Developer / Installation Guides
- xvi. Publish
- G. caTIES Development (UPMC / Penn / ?)
 - i. ?????????????????
- H. SDK / API Development for Existing Systems (UPMC / NW / ?)
 - i. ?????????????????
- I. Draft Design Documents for Additional caTISSUE Modules – Past Year 1
- J. Draft Additional SDK/API for Additional Systems to Integrate – Past Year 1

A, B, C to be completed immediately (< 4 weeks)

D-H to run concurrently

D should be complete much prior F

E can run concurrently

F and G need to be coordinated

caTIES module should plug-in to caTISSUE Lite

F and H need to be coordinated

CDE / Arch for each must be identical